

FDn43 Northern Mesic Mixed Forest Pollinator Resources

Mesic pine, aspen, white cedar, or birch forests on loamy soils over bedrock in scoured bedrock uplands and on loamy, rocky, or sandy soils on glacial moraines, till plains, and outwash plains. Crown and severe surface fires were common historically.

Examples of insect pollinators (and their associated host plants in parentheses) that use FDn43 include:

Bees:

Andrena erythrogaster (*Salix*)

Andrena melanochroa (Rosaceae)

Andrena carolina (*Vaccinium*)

Osmia laticeps (*Vaccinium*)

Butterflies:

Chlosyne nycteis (*Eurybia macrophylla*)

Oeneis macounii (*Oryzopsis asperifolia*)

Erynnis icelus (*Populus tremuloides*)

Moths:

Lithophane patefacta (*Acer rubrum*)

Hemaris aethra (*Diervilla lonicera*)

Actias luna (*Betula papyrifera*)



Andrena erythrogaster (red-bellied miner bee) uses *Salix* (willow) species as a host plant. Photo: Max McCarthy

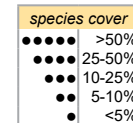


Actias luna (luna moth) uses *Betula papyrifera* (paper birch) as a host plant. Photo: Kyle Johnson

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Pollinator Resources Table

FDn43 Class Factsheet. Based on 201 plots. November, 2024.



Forbs	species frequency in NPC (%)	species cover (when present)	Compatibility	Longevity	Clonality	Principal Pollen Vector	Pollinator requirements	Pollination Index
Wild sarsaparilla (<i>Aralia nudicaulis</i>)	91	●●	D	Perennial	Present	insects	Generalist	5
Large-leaved aster (<i>Aster macrophyllus</i>)	89	●●●●	A	Perennial	Present	insects	Generalist	4
Bluebead lily (<i>Clintonia borealis</i>)	88	●	SI	Perennial	Present	insects	Generalist	0
Bunchberry (<i>Cornus canadensis</i>)	87	●	SI	Perennial	Present	insects	Generalist	2
Canada mayflower (<i>Maianthemum canadense</i>)	87	●	SI	Perennial	Present	insects	Early spring insect	3
Starflower (<i>Trientalis borealis</i>)	80	●	SI/sc	Perennial	Present	insects	Generalist	4
Sweet-scented bedstraw (<i>Galium triflorum</i>)	71	●	UNK	Perennial	Present	insects	Generalist	3
Rose twistedstalk (<i>Streptopus roseus</i>)	69	●	UNK	Perennial	Present	insects	Early spring insect	2
Dwarf raspberry (<i>Rubus pubescens</i>)	67	●	SC	Perennial	Present	insects	Generalist	4
Twinflower (<i>Linnaea borealis</i>)	60	●	SC	Perennial	Present	insects	Generalist	3
Groundpine (<i>Lycopodium dendroideum</i> or <i>L. hickeyi</i>)	54	●	SC	Perennial	Present	wind, water	Generalist	4
Bracken (<i>Pteridium aquilinum</i>)	47	●●●	SC	Perennial	Present	wind, water	Generalist	4
Common strawberry (<i>Fragaria virginiana</i>)	46	●	SC	Perennial	Present	insects	Early spring insect	4
Wood anemone (<i>Anemone quinquefolia</i>)	44	●	UNK	Perennial	Present	insects	Early spring insect	5
Spinulose shield fern or Glandular wood fern*	39	●	SC	Perennial	Present	wind, water	Generalist	3
Red baneberry (<i>Actaea rubra</i>)	34	●	SC	Perennial	Present	insects	Early spring insect	5
One-sided pyrola (<i>Pyrola secunda</i>)	30	●	UNK	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	2
Running clubmoss (<i>Lycopodium clavatum</i>)	29	●	SC	Perennial	Present	wind, water	Generalist	4
Naked miterwort (<i>Mitella nuda</i>)	26	●	UNK	Perennial	Present	insects	Early spring insect	3
Common oak fern (<i>Gymnocarpium dryopteris</i>)	26	●	SC	Perennial	Present	wind, water	Generalist	3
Lady fern (<i>Athyrium filix-femina</i>)	22	●	SC	Perennial	Present	wind, water	Generalist	5
Bristly clubmoss (<i>Lycopodium annotinum</i>)	21	●●	SC	Perennial	Present	wind, water	Generalist	0
Goldthread (<i>Coptis trifolia</i>)	20	●	UNK	Perennial	Present	insects	Early spring insect	0
Spreading dogbane (<i>Apocynum androsaemifolium</i>)	17	●	SI	Perennial	Present	insects	Generalist	5
Palmate sweet coltsfoot (<i>Petasites frigidus</i>)	17	●	D	Perennial	Present	insects	Early spring insect	4
Pale vetchling (<i>Lathyrus ochroleucus</i>)	17	●	SI	Perennial	Present	insects	Somewhat specific insect	4
Common polypody (<i>Polypodium virginianum</i>)	15	●	SC	Perennial	Present	wind, water	Generalist	4
Kidney-leaved violet (<i>Viola renifolia</i>)	15	●	CL flowers present	Perennial	Present	insects	Early spring insect	5
Shining firmoss (<i>Huperzia lucidula</i>)	14	●●	SC	Perennial	Present	wind, water	Generalist	5
Veiny pea (<i>Lathyrus venosus</i>)	14	●	SI	Perennial	Present	insects	Somewhat specific insect	5
Alpine enchanter's nightshade (<i>Circaea alpina</i>)	12	●	SC	Perennial	Present	insects	Generalist	0
Cow wheat (<i>Melampyrum lineare</i>)	12	●	SC	Annual	Absent	insects	Somewhat specific insect	6
Grasses and Sedges								
Mountain rice grass (<i>Oryzopsis asperifolia</i>)	58	●	UNK	Perennial	Absent	wind	Generalist	0
Bluejoint (<i>Calamagrostis canadensis</i>)	19	●●●	A	Perennial	Present	wind	Generalist	0
Long-stalked sedge (<i>Carex pedunculata</i>)	18	●	SC	Perennial	Present	wind	Generalist	0
False melic grass (<i>Schizachne purpurascens</i>)	17	●	UNK	Perennial	Absent	wind	Generalist	0
Drooping wood sedge (<i>Carex arctata</i>)	16	●	SC	Perennial	Present	wind	Generalist	0

Low Shrubs								
Red raspberry (<i>Rubus idaeus</i>)	38	•	SC	Perennial	Present	insects	Generalist	3
Velvet-leaved blueberry (<i>Vaccinium myrtilloides</i>)	36	•	SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	2
Lowbush blueberry (<i>Vaccinium angustifolium</i>)	36	•	± SC	Perennial	Present	insects	Somewhat specific insect, Facultative buzz pollination	3
Thimbleberry (<i>Rubus parviflorus</i>)	30	••	SI	Perennial	Present	insects	Generalist	3
Shrubs								
Beaked hazelnut (<i>Corylus cornuta</i>)	93	•••	Di	Perennial	Present	wind	Generalist	0
Fly honeysuckle (<i>Lonicera canadensis</i>)	83	•	SC	Perennial	Absent	insects	Somewhat specific insect	4
Mountain maple (<i>Acer spicatum</i>)	77	•••	SI	Perennial	Absent	insects	Early spring insect	6
Bush honeysuckle (<i>Diervilla lonicera</i>)	67	••	SC	Perennial	Present	insects	Somewhat specific insect	3
Juneberries (<i>Amelanchier spp.</i>)	64	•	Varies	Perennial	Present	insects	Early spring insect	Varies
Prickly or Smooth wild rose (<i>Rosa acicularis</i> or <i>R. blanda</i>)	33	•	SC	Perennial	Present	insects	Generalist	2
Round-leaved dogwood (<i>Cornus rugosa</i>)	25	•	UNK	Perennial	Present	insects	Generalist	3
Chokecherry (<i>Prunus virginiana</i>)	24	•	SI	Perennial	Present	insects	Early spring insect	5
Hairy honeysuckle (<i>Lonicera hirsuta</i>)	22	•	SC	Perennial	Weakly	insects	Somewhat specific insect	3
Downy arrowwood (<i>Viburnum rafinesquianum</i>)	15	•	UNK	Perennial	Present	insects	Generalist	3
Prairie willow (<i>Salix humilis</i>)	7	••	D	Perennial	Present	insects	Early spring insect	5
Tree Canopy								
Paper birch	69	•••	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	46	•••	D	Perennial	Present	wind	Generalist	0
Balsam fir	46	•••	UNK	Perennial	Absent	wind	Generalist	0
White pine	39	••••	SI	Perennial	Absent	wind	Generalist	0
White spruce	36	••	UNK	Perennial	Absent	wind	Generalist	0
Red pine	22	••••	UNK	Perennial	Absent	wind	Generalist	0
White cedar	20	••••	UNK	Perennial	Absent	wind	Generalist	0
Red maple	16	••	D	Perennial	Absent	insects	Early spring insect	6
Black spruce	11	••	UNK	Perennial	Absent	wind	Generalist	0
Jack pine	5	••	UNK	Perennial	Absent	wind	Generalist	0
Mountain ashes	1	•	A	Perennial	Weakly	insects	Generalist	2
Tree Subcanopy								
Paper birch	62	••	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	37	•••	D	Perennial	Present	wind	Generalist	0
Balsam fir	74	•••	UNK	Perennial	Absent	wind	Generalist	0
White pine	18	•	SI	Perennial	Absent	wind	Generalist	0
White spruce	40	••	UNK	Perennial	Absent	wind	Generalist	0
Red pine	2	•	UNK	Perennial	Absent	wind	Generalist	0
White cedar	24	•••	UNK	Perennial	Absent	wind	Generalist	0
Red maple	25	••	D	Perennial	Absent	insects	Early spring insect	6
Black spruce	14	••	UNK	Perennial	Absent	wind	Generalist	0
Jack pine	2	••	UNK	Perennial	Absent	wind	Generalist	0

Mountain ashes	10	•	A	Perennial	Weakly	insects	Generalist	2
Tree Shrub Layer								
Paper birch	37	•	Di	Perennial	Present	wind	Generalist	0
Quaking aspen	50	•	D	Perennial	Present	wind	Generalist	0
Balsam fir	90	••	UNK	Perennial	Absent	wind	Generalist	0
White pine	38	•	SI	Perennial	Absent	wind	Generalist	0
White spruce	46	•	UNK	Perennial	Absent	wind	Generalist	0
Red pine	2	•	UNK	Perennial	Absent	wind	Generalist	0
White cedar	18	•	UNK	Perennial	Absent	wind	Generalist	0
Red maple	40	••	D	Perennial	Absent	insects	Early spring insect	6
Black spruce	13	•	UNK	Perennial	Absent	wind	Generalist	0
Jack pine	1	•	UNK	Perennial	Absent	wind	Generalist	0
Mountain ashes	58	•	A	Perennial	Weakly	insects	Generalist	2

*Spinulose shield fern or Glandular wood fern (*Dryopteris carthusiana* or *D. intermedia*).